A.C. Moore
EDI Specifications

Last Updated 05/05/2009

Contents

EDI Enveloping Specification

A.C. Moore's	
Qualifier 12	
ID 609768444	8

All EDI transactions follow the same rules when it comes to document enveloping. Similarly to how a vendor would send A.C. Moore paper documents there are 3 levels:

Interchange Level (ISA/IEA) or a Mailbag of Packages
Container for multiple Functional Groups
Functional Group (GS/GE) or a Package of Documents
Container for multiple Transaction Sets
Transaction Set (ST/SE) or a Single Document
Container for an EDI Document

A group of documents being sent to A.C. Moore displayed graphically:

```
ISA ─ Interchange Envelope ─────────────────────────┐
                                                     │
       GS ─ Functional Group 1 ──────────────┐       │
             ST ─ Transaction Set 1 ──────┐  │       │
                      810 Invoice         │  │       │
             SE ──────────────────────────┘  │       │
             ST ─ Transaction Set 2 ──────┐  │       │
                      810 Invoice         │  │       │
             SE ──────────────────────────┘  │       │
       GE ───────────────────────────────────┘       │
       GS ─ Functional Group 2 ──────────┐            │
       GE ─────────────────────────────┘              │
IEA ─────────────────────────────────────────────────┘
```
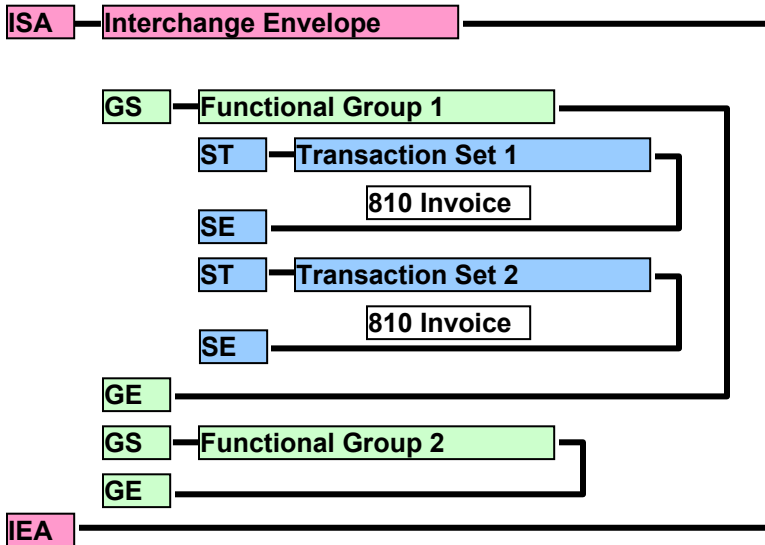
ISA Interchange Control Header

To start and identify an interchange of zero or more functional groups and interchange related control segments. The ISA is different than the other segments in the fact that it is **FIXED LENGTH.**

ID	Name	Data Type	Min/Max Size	Needed
01	Authorization Information Qualifier	ID	2/2	Y
02	Authorization Information	Alphanumeric	10/10	Y
03	Security Information Qualifier	ID	2/2	Y
04	Security Information	Alphanumeric	10/10	Y
05	Interchange ID Qualifier	ID	2/2	Y
06	Interchange Sender ID	Alphanumeric	15/15	Y
07	Interchange ID Qualifier	ID	2/2	Y
08	Interchange Receiver ID	Alphanumeric	15/15	Y
09	Interchange Date	Date	6/6	Y
10	Interchange Time	Time	4/4	Y
11	Interchange Control Standards Identifier	ID	1/1	Y
12	Interchange Control Version Number	ID	5/5	Y
13	Interchange Control Number	Number no Decimal	9/9	Y
14	Acknowledgment Requested	ID	1/1	Y
15	Usage Indicator	ID	1/1	Y
16	Component Element Separator	Anything	1/1	Y

Example:
ISA*00*   *00*   *12*1234567890   *12*6097684448   *020514*0904*U*00401*000112002*0*P*~

SEMANTIC NOTES
ISA16 Should not be a character contained within any of your items descriptions
ISA12 The version standard A.C. Moore uses is 00401

IEA Interchange Control Trailer

To define the end of an interchange of zero or more functional groups and interchange related control segments

ID	Name	Data Type	Min/Max Size	Needed
01	Number of Included Functional Groups	Number no Decimal	1/5	Y
02	Interchange Control Number	Number no Decimal	9/9	Y

Example:
IEA*1*000009284

GS Functional Group Header

To indicate the beginning of a functional group and to provide control information

ID	Name	Data Type	Min/Max Size	Needed
01	Functional Identifier Code	ID	2/2	Y
02	Application Sender's Code	Alphanumeric	2/15	Y
03	Application Receiver's Code	Alphanumeric	2/15	Y
04	Date	Date	8/8	Y
05	Time	Time	4/8	Y
06	Group Control Number	Number no Decimal	1/9	Y
07	Responsible Agency Code	ID	1/2	Y
08	Version Identifier Code	Alphanumeric	1/12	Y

Example:
GS*FA*1234567890*6097684448*20020514*0904*112*X*004010

Functional Identifier Codes	
PO	Purchase Order (850)
FA	Functional Acknowledgment (997)
IN	Invoice Information (810,819)
SH	Ship Notice/Manifest (856)
QM	Transportation Carrier Shipment Status Message (214)

SEMANTIC NOTES
GS04 is the group date.
GS05 is the group time.
The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.
A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.
GS08 The version standard A.C. Moore uses is 004010

GE Functional Group Trailer

To indicate the end of a functional group and to provide control information

ID	Name	Data Type	Min/Max Size	Needed
01	Number of Transaction Sets Included	Number no Decimal	1/6	Y
02	Group Control Number	Number no Decimal	1/9	Y

Example:
GE*1*12989307

SEMANTIC NOTES
The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

COMMENTS
The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

ST Transaction Set Header

To indicate the start of a transaction set and to assign a control number

ID	Name	Data Type	Min/Max Size	Needed
01	Transaction Set Identifier Code	ID	3/3	Y
02	Transaction Set Control Number	Number no Decimal	4/9	Y

Example:
ST*810*12989307

SEMANTIC NOTES
The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

SE Transaction Set Trailer

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

ID	Name	Data Type	Min/Max Size	Needed
01	Number of Included Segments	Number no Decimal	1/10	Y
02	Transaction Set Control Number	Number no Decimal	4/9	Y

Example:
SE*24*12989307

SE is the last segment of each transaction set.

850 Purchase Order Specification

Required Segments	Descriptions
BEG	Beginning Segment for Purchase Order
REF	Reference Identification
N9	Reference Identification
DTM	Date/Time Reference
N1	Name
N2	Additional Name Information
N3	Address Information
N4	Geographic Location
PO1	Baseline Item Data
PID	Product/Item Description
CTT	Transaction Totals
AMT	Monetary Amount

850 BEG Beginning Segment for Purchase Order

To indicate the beginning of the Purchase Order Transaction Set and transmit identifying numbers and dates

ID	Name	Data Type	Min/Max Size	Sent
01	Transaction Set Purpose Code	ID	2/2	Y
02	Purchase Order Type Code	ID	2/2	Y
03	Purchase Order Number	Alphanumeric	1/22	Y
04	Release Number	Alphanumeric	1/30	N
05	Date	Date	8/8	Y
06	Contract Number	Alphanumeric	1/30	N
07	Acknowledgment Type	ID	2/2	N
08	Invoice Type Code	ID	3/3	N
09	Contract Type Code	ID	2/2	N
10	Purchase Category	ID	2/2	N
11	Security Level Code	ID	2/2	N
12	Transaction Type Code	ID	2/2	N

Example:
(This is for a new purchase order)
BEG*00*SA*A123456**20020515

(This is for a modified purchase order)
BEG*04*SA*A123456**20020515

(This is for a purchase order cancellation)
BEG*01*SA*A123456**20020515

BEG01 contains whether the 850 is an Original Purchase Order, Modified Purchase Order or a Canceled Purchase Order

SEMANTIC NOTES
BEG05 is the date assigned by the purchaser to purchase order.

850 REF Reference Identification

To specify identifying information

ID Name		Data Type	Min/Max Size	Sent
01	Reference Identification Qualifier	ID	2/3	Y
02	Reference Identification	Alphanumeric	1/30	Y
03	Description	Alphanumeric	1/80	Y
04	Reference Identifier	Alphanumeric	1/30	N

Example:
(REF*DP Department)
(Identification Code on the REF*DP is always the Department Code)
(Reference Identifier on the REF*DP is always the Department Description)

This is a list of all of our current departments:

REF*DP*0*EXPENSE
REF*DP*1*POTPOURRI
REF*DP*2*STATIONARY
REF*DP*3*WEDDING
REF*DP*4*STAMPS
REF*DP*5*CUSTOM FRAMING
REF*DP*6*CANDY
REF*DP*7*STENCILS
REF*DP*8*FLAGS
REF*DP*9*BRUSHES/PAINTS
REF*DP*10*ART SUPPLIES
REF*DP*11*WOOD
REF*DP*12*POSTER ART
REF*DP*13*MATS
REF*DP*14*FRAMES W/O GLASS
REF*DP*15*FRAMES W GLASS
REF*DP*16*FLORAL
REF*DP*17*ARRANGEMENTS
REF*DP*18*DRIED FLOWERS
REF*DP*19*FLORAL ACCESS
REF*DP*20*RIBBON
REF*DP*21*BASKETS
REF*DP*22*STITCHERY
REF*DP*23*TRANSFERS
REF*DP*24*YARN
REF*DP*25*T-SHIRTS / SWEATS
REF*DP*26*BOOKS
REF*DP*27*DMC FLOSS
REF*DP*28*DOLLS
REF*DP*29*NOTIONS
REF*DP*30*JEWELRY
REF*DP*31*KIDS
REF*DP*32*CANDLE SUPPLIES
REF*DP*33*MACRAME
REF*DP*34*FELT
REF*DP*35*SEASONAL
REF*DP*36*CLASSROOM
REF*DP*37*MINITURES
REF*DP*38*KIDS BOOKS
REF*DP*39*MISC NON TAX
REF*DP*40*MISC TAX

(REF*ZZ Vendor Comment)
(Identification Code on the REF*ZZ is always Vendor Comment)
REF*ZZ*COMMENT*Co-op Discount of 5.00% Applies to this order

SYNTAX NOTES
R0203 - At least one of REF02 or REF03 is required.

SEMANTIC NOTES
REF04 contains data relating to the value cited in REF02.

850 N9 Reference Identification

To transmit identifying information as specified by the Reference Identification Qualifier

ID	Name	Data Type	Min/Max Size	Sent
01	Reference Identification Qualifier	ID	2/3	Y
02	Reference Identification	AN	1/30	Y
03	Free-form Description	AN	1/45	N
04	Date	DT	8/8	N
05	Time	TM	4/8	N
06	Time Code	ID	2/2	N
07	Reference Identifier	AN	1/30	N

Example:
(Reference Identification on the N9*ST is always the 3 digit Store Number zero filled)
N9*ST*008

SYNTAX NOTES
R0203 - At least one of N902 or N903 is required.
C0605 - If N906 is present, then N905 is required.

SEMANTIC NOTES
N906 reflects the time zone that the time reflects.
N907 contains data relating to the value cited in N902.

850 DTM Date/Time Reference

To specify pertinent dates and times

ID	Name	Data Type	Min/Max Size	Sent
01	Date/Time Qualifier	ID	3/3	Y
02	Date	Date	8/8	Y
03	Time	Time	4/8	N
04	Time Code	ID	2/2	N
05	Date Time Period Format Qualifier	ID	2/3	N
06	Date Time Period	Alphanumeric	1/35	N

Example:
(A Date/Time Qualifier of 010 means Requested Ship Date)
DTM*010*20020515

(A Date/Time Qualifier of 002 means Delivery Requested Date)
DTM*002*20020515

(A Date/Time Qualifier of 001 means Cancel After Date)
DTM*001*20020912

SYNTAX NOTES
R020305 - At least one of DTM02, DTM03 or DTM05 is required.
C0403 - If DTM04 is present, then DTM03 is required. 04
P0506 - If either DTM05 or DTM06 is present, then the other is required.

850 N1 Name

To identify a party by type of organization, name, and code

ID Name		Data Type	Min/Max Size	Sent
01	Entity Identifier Code	ID	2/3	Y
02	Name	Alphanumeric	1/60	Y
03	Identification Code Qualifier	ID	1/2	Y
04	Identification Code	Alphanumeric	2/80	Y
05	Entity Relationship Code	ID	2/2	N
06	Entity Identifier Code	ID	2/3	N

Example:
 (N1*ST Ship to)
(Identification Code Qualifier on the N1*ST is always 92)
(Identification Code on the N1*ST is always the DC Identifier)
N1*ST*A. C. Moore Inc*92*NJ01

(N1*MA Party for whom Item is ultimately intended)
(Identification Code on the N1*MA is always the 4 digit Store Number zero filled)
N1*MA*A. C. Moore Inc*92*0015

(N1*SF Ship from)
(Identification Code Qualifier on the N1*SF is always 92)
(Identification Code on the N1*SF is always the 6 digit Vendor number zero filled)
N1*SF**92*123456

N101 SF means Ship From
N103 92 is an identifier specifying this N104 is a the 6 digit zero filled vendor identifier assigned at A.C. Moore
N104 123456 is the id A.C. Moore has assigned to your supplier

SYNTAX NOTES
02 R0203 - At least one of N102 or N103 is required.
03 P0304 - If either N103 or N104 is present, then the other is required.

COMMENTS
04 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
05 N105 and N106 further define the type of entity in N101.

850 N2 Additional Name Information

To specify additional names or those longer than 35 characters in length

ID Name		Data Type	Min/Max Size	Sent
01	Name	Alphanumeric	1/60	Y
02	Name	Alphanumeric	1/60	N

Example:
N2*450 Eisenhower Drive

850 N3 Address Information

To specify the location of the named party

ID	Name	Data Type	Min/Max Size	Sent
01	Address Information	Alphanumeric	1/55	Y
02	Address Information	Alphanumeric	1/55	Y

Example:
N3**PH:(717)632-9000 FAX:(717)632-9146

850 N4 Geographic Location

To specify the geographic place of the named party

ID	Name	Data Type	Min/Max Size	Sent
01	City Name	Alphanumeric	2/30	Y
02	State or Province Code	ID	2/2	Y
03	Postal Code	ID	3/15	Y
04	Country Code	ID	2/3	Y
05	Location Qualifier	ID	1/2	N
06	Location Identifier	Alphanumeric	1/30	N

Example:
N4*South Portland*ME*04106*US

SYNTAX NOTES
C0605 - If N406 is present, then N405 is required.

COMMENTS
06 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
N402 is required only if city name (N401) is in the U.S. or Canada.

850 PO1 Baseline Item Data

To specify basic and most frequently used line item data

ID	Name	Data Type	Min/Max Size	Sent
01	Assigned Identification	Alphanumeric	1/20	Y
02	Quantity Ordered	Number	1/15	Y
03	Unit or Basis for Measurement Code	ID	2/2	Y
04	Unit Price	Number	1/17	Y
05	Basis of Unit Price Code	ID	2/2	N
06	Product/Service ID Qualifier	ID	2/2	Y
07	Product/Service ID	Alphanumeric	1/48	Y
08	Product/Service ID Qualifier	ID	2/2	N
09	Product/Service ID	Alphanumeric	1/48	N
10	Product/Service ID Qualifier	ID	2/2	N
11	Product/Service ID	Alphanumeric	1/48	N
12	Product/Service ID Qualifier	ID	2/2	N
13	Product/Service ID	Alphanumeric	1/48	N
14	Product/Service ID Qualifier	ID	2/2	N
15	Product/Service ID	Alphanumeric	1/48	N
16	Product/Service ID Qualifier	ID	2/2	N
17	Product/Service ID	Alphanumeric	1/48	N
18	Product/Service ID Qualifier	ID	2/2	N
19	Product/Service ID	Alphanumeric	1/48	N
20	Product/Service ID Qualifier	ID	2/2	N
21	Product/Service ID	Alphanumeric	1/48	N
22	Product/Service ID Qualifier	ID	2/2	N
23	Product/Service ID	Alphanumeric	1/48	N
24	Product/Service ID Qualifier	ID	2/2	N
25	Product/Service ID	Alphanumeric	1/48	N

Example:
(with Item Codes)
PO1*1*6*EA*9.05**VC*42020
PO1*2*6*EA*7.29**VC*42021
PO1*3*18*EA*4.86**VC*42024

(with UPC Codes)
PO1*1*12*EA*1.485**UP*024225012310
PO1*2*24*EA*2.52**UP*024225321122
PO1*3*12*EA*1.395**UP*024225322594

SYNTAX NOTES
C0302 - If PO103 is present, then PO102 is required.
C0504 - If PO105 is present, then PO104 is required.
P0607 - If either PO106 or PO107 is present, then the other is required.
P0809 - If either PO108 or PO109 is present, then the other is required.
P1011 - If either PO110 or PO111 is present, then the other is required.
P1213 - If either PO112 or PO113 is present, then the other is required.
P1415 - If either PO114 or PO115 is present, then the other is required.
P1617 - If either PO116 or PO117 is present, then the other is required.
P1819 - If either PO118 or PO119 is present, then the other is required.
P2021 - If either PO120 or PO121 is present, then the other is required.
P2223 - If either PO122 or PO123 is present, then the other is required.
P2425 - If either PO124 or PO125 is present, then the other is required.

COMMENTS
PO101 is the line item identification.
PO106 through PO125 provide for ten different product/service IDs per each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

850 PID Product/Item Description

To describe a product or process in coded or free-form format

ID	Name	Data Type	Min/Max Size	Sent
01	Item Description Type	ID	1/1	Y
02	Product/Process Characteristic Code	ID	2/3	N
03	Agency Qualifier Code	ID	2/2	N
04	Product Description Code	Alphanumeric	1/12	N
05	Description	Alphanumeric	1/80	Y
06	Surface/Layer/Position Code	ID	2/2	N
07	Source Sub qualifier	Alphanumeric	1/15	N
08	Yes/No Condition or Response Code	ID	1/1	N
09	Language Code	ID	2/3	N

Example:
PID*F****OIL SPRING FLORAL

SYNTAX NOTES
C0403 - If PID04 is present, then PID03 is required.
R0405 - At least one of PID04 or PID05 is required.
C0703 - If PID07 is present, then PID03 is required.
C0804 - If PID08 is present, then PID04 is required.
C0905 - If PID09 is present, then PID05 is required.

SEMANTIC NOTES
PID04 should be used for industry-specific product description codes.
PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
PID09 is used to identify the language being used in PID05.
If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.

COMMENTS
Use PID06 when necessary to refer to the product surface or layer being described in the segment.
PID07 specifies the individual code list of the agency specified in PID03.

850 CTT Transaction Totals

To transmit a hash total for a specific element in the transaction set

ID	Name	Data Type	Min/Max Size	Sent
01	Number of Line Items	Number	1/6	Y
02	Hash Total	Number	1/10	N
03	Weight	Number	1/10	N
04	Unit or Basis for Measurement Code	ID	2/2	N
05	Volume	Number	1/8	N
06	Unit or Basis for Measurement Code	ID	2/2	N
07	Description	Alphanumeric	1/80	N

Example:
CTT*24

SYNTAX NOTES
P0304 - If either CTT03 or CTT04 is present, then the other is required.
P0506 - If either CTT05 or CTT06 is present, then the other is required.

COMMENTS
This segment is intended to provide hash totals to validate transaction completeness and correctness.

850 AMT Monetary Amount

To indicate the total monetary amount

ID	Name	Data Type	Min/Max Size	Sent
01	Amount Qualifier Code	ID	1/3	Y
02	Monetary Amount	Number	1/18	Y
03	Credit/Debit Flag Code	ID	1/1	N

Example:
AMT*TT*95.04

810 Invoicing Specification

Required Segments	Descriptions
BIG	Beginning Segment for Invoice
N1	Name
IT1	Baseline Item Data (Invoice)
PID	Product/Item Description
TDS	Total Monetary Value Summary
CAD	Carrier Detail
ISS	Invoice Shipment Summary
CTT	Transaction Totals

810 BIG Beginning Segment for Invoice

To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

ID	Name	Data Type	Min/Max Size	Needed
01	Date	Date	8/8	Y
02	Invoice Number	Alphanumeric	1/22	Y
03	Date	Date	8/8	Y
04	Purchase Order Number	Alphanumeric	1/22	Y
05	Release Number	Alphanumeric	1/30	N
06	Change Order Sequence Number	Alphanumeric	1/8	N
07	Transaction Type Code	ID	2/2	N
08	Transaction Set Purpose Code	ID	2/2	N
09	Action Code	ID	1/2	N
10	Invoice Number	Alphanumeric	1/22	N

Example:
BIG*20020510*95482*20020508*ABC05-R57196

SEMANTIC NOTES
BIG01 is the invoice issue date.
BIG03 is the date assigned by the purchaser to purchase order.
BIG10 indicates the consolidated invoice number. When BIG07 contains code, BIG10 is not used.
BIG07 is used only to further define the type of invoice when needed.

810 N1 Name

To identify a party by type of organization, name, and code

ID	Name	Data Type	Min/Max Size	Needed
01	Entity Identifier Code	ID	2/3	Y
02	Name	Alphanumeric	1/60	Y
03	Identification Code Qualifier	ID	1/2	Y
04	Identification Code	Alphanumeric	2/80	Y
05	Entity Relationship Code	ID	2/2	N
06	Entity Identifier Code	ID	2/3	N

Example:
(N1*ST Ship to)
(Identification Code Qualifier on the N1*ST is always 92)
(Identification Code on the N1*ST is always the 4 digit Store Number zero filled)
N1*ST*A. C. Moore Inc*92*0015

(N1*RE Remittance)
(Name on the N1*RE must always be the vendors name)
(Identification Code Qualifier on the N1*RE is always 92)
(Identification Code on the N1*RE is always the 6 digit Vender Number)
N1*RE*TIMELESS FRAMES*92*695843

SYNTAX NOTES
P0304 - If either N103 or N104 is present, then the other is required.
This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

COMMENTS
N105 and N106 further define the type of entity in N101.

810 IT1 Baseline Item Data (Invoice)

To specify the basic and most frequently used line item data for the invoice and related transactions

ID	Name	Data Type	Min/Max Size	Needed
01	Assigned Identification	Alphanumeric	1/20	Y
02	Quantity Invoiced	Number	1/10	Y
03	Unit or Basis for Measurement Code	ID	2/2	Y
04	Unit Price	Number	1/17	Y
05	Basis of Unit Price Code	ID	2/2	N
06	Product/Service ID Qualifier	ID	2/2	Y
07	Product/Service ID	Alphanumeric	1/48	Y
08	Product/Service ID Qualifier	ID	2/2	N
09	Product/Service ID	Alphanumeric	1/48	N
10	Product/Service ID Qualifier	ID	2/2	N
11	Product/Service ID	Alphanumeric	1/48	N
12	Product/Service ID Qualifier	ID	2/2	N
13	Product/Service ID	Alphanumeric	1/48	N
14	Product/Service ID Qualifier	ID	2/2	N
15	Product/Service ID	Alphanumeric	1/48	N
16	Product/Service ID Qualifier	ID	2/2	N
17	Product/Service ID	Alphanumeric	1/48	N
18	Product/Service ID Qualifier	ID	2/2	N
19	Product/Service ID	Alphanumeric	1/48	N
20	Product/Service ID Qualifier	ID	2/2	N
21	Product/Service ID	Alphanumeric	1/48	N
22	Product/Service ID Qualifier	ID	2/2	N
23	Product/Service ID	Alphanumeric	1/48	N
24	Product/Service ID Qualifier	ID	2/2	N
25	Product/Service ID	Alphanumeric	1/48	N

Example:
(with UPC Codes)
IT1*1*12*EA*2.84**UP*024751445805
IT1*2*12*EA*2.84**UP*024751445836
IT1*3*12*EA*2.84**UP*024751445866
IT1*4*12*EA*2.84**UP*02475144587
IT1*5*12*EA*3.15**UP*02475144590

(with Item Codes)
IT1*1*4.0000*EA*1.7325**VP*5024
IT1*2*5.0000*EA*2.0825**VP*5032
IT1*3*5.0000*EA*3.8325**VP*6023
IT1*4*10.0000*EA*1.1375**VP*7003
IT1*5*5.0000*EA*1.4875**VP*7009

SYNTAX NOTES
P020304 - If either IT102, IT103 or IT104 are present, then the others are required.
P0607 - If either IT106 or IT107 is present, then the other is required.
P0809 - If either IT108 or IT109 is present, then the other is required.
P1011 - If either IT110 or IT111 is present, then the other is required.
P1213 - If either IT112 or IT113 is present, then the other is required.
P1415 - If either IT114 or IT115 is present, then the other is required.
P1617 - If either IT116 or IT117 is present, then the other is required.
P1819 - If either IT118 or IT119 is present, then the other is required.
P2021 - If either IT120 or IT121 is present, then the other is required.
P2223 - If either IT122 or IT123 is present, then the other is required.
P2425 - If either IT124 or IT125 is present, then the other is required.
IT101 is the purchase order line item identification.

SEMANTIC NOTES
Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.

810 PID Product/Item Description

To describe a product or process in coded or free-form format

ID	Name	Data Type	Min/Max Size	Needed
01	Item Description Type	ID	1/1	Y
02	Product/Process Characteristic Code	ID	2/3	N
03	Agency Qualifier Code	ID	2/2	N
04	Product Description Code	Alphanumeric	1/12	N
05	Description	Alphanumeric	1/80	Y
06	Surface/Layer/Position Code	ID	2/2	N
07	Source Sub qualifier	Alphanumeric	1/15	N
08	Yes/No Condition or Response Code	ID	1/1	N
09	Language Code	ID	2/3	N

Example:
PID*F****OIL SPRING FLORAL

SYNTAX NOTES
C0403 - If PID04 is present, then PID03 is required.
R0405 - At least one of PID04 or PID05 is required.
C0703 - If PID07 is present, then PID03 is required.
C0804 - If PID08 is present, then PID04 is required.
C0905 - If PID09 is present, then PID05 is required.

SEMANTIC NOTES
Use PID03 to indicate the organization that publishes the code list being referred to.
PID04 should be used for industry-specific product description codes.
PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
PID09 is used to identify the language being used in PID05.
If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.

COMMENTS
Use PID06 when necessary to refer to the product surface or layer being described in the segment.
PID07 specifies the individual code list of the agency specified in PID03.

810 TDS Total Monetary Value Summary

To specify the total invoice discounts and amounts

ID	Name	Data Type	Min/Max Size	Needed
01	Amount	Number no Decimal	1/15	Y
02	Amount	Number no Decimal	1/15	N
03	Amount	Number no Decimal	1/15	N
04	Amount	Number no Decimal	1/15	N

Example:
(This total is $69.22)
TDS*6922

SEMANTIC NOTES
TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
TDS02 indicates the amount upon which the terms discount amount is calculated.
TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
TDS04 indicates the total amount of terms discount.
TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

810 CAD Carrier Detail

To specify transportation details for the transaction

ID	Name	Data Type	Min/Max Size	Needed
01	Transportation Method/Type Code	ID	1/2	Y
02	Equipment Initial	Alphanumeric	1/4	N
03	Equipment Number	Alphanumeric	1/10	N
04	Standard Carrier Alpha Code	ID	2/4	N
05	Routing	Alphanumeric	1/35	N
06	Shipment/Order Status Code	ID	2/2	N
07	Reference Identification Qualifier	ID	2/3	N
08	Reference Identification	Alphanumeric	1/30	N
09	Service Level Code	ID	2/2	N

Example:

CAD*Fe

SYNTAX NOTES
R0504 - At least one of CAD05 or CAD04 is required.
C0708 - If CAD07 is present, then CAD08 is required.

810 ISS Invoice Shipment Summary

To specify summary details of total items shipped in terms of quantity, weight, and volume

ID	Name	Data Type	Min/Max Size	Needed
01	Number of Units Shipped	Number	1/10	Y
02	Unit or Basis for Measurement Code	ID	2/2	Y
03	Weight	Number	1/10	Y
04	Unit or Basis for Measurement Code	ID	2/2	Y
05	Volume	Number	1/8	N
06	Unit or Basis for Measurement Code	ID	2/2	N
07	Quantity	Number	1/15	N
08	Weight	Number	1/10	N

Example:

ISS*288*EA*424.032*LB

SYNTAX NOTES
Adds data element to positions 07 and 08.
R010305 - At least one of ISS01, ISS03 or ISS05 is required.
P0102 - If either ISS01 or ISS02 is present, then the other is required.
P0304 - If either ISS03 or ISS04 is present, then the other is required.
P0506 - If either ISS05 or ISS06 is present, then the other is required.

SEMANTIC NOTES
ISS07 is the quantity of third party pallets.
ISS08 is the gross weight of third party pallets in pounds.

810 CTT Transaction Totals

To transmit a hash total for a specific element in the transaction set

ID	Name	Data Type	Min/Max Size	Needed
01	Number of Line Items	Number	1/6	Y
02	Hash Total	Number	1/10	N
03	Weight	Number	1/10	N
04	Unit or Basis for Measurement Code	ID	2/2	N
05	Volume	Number	1/8	N
06	Unit or Basis for Measurement Code	ID	2/2	N
07	Description	Alphanumeric	1/80	N

Example:

CTT*24

SYNTAX NOTES
P0304 - If either CTT03 or CTT04 is present, then the other is required.
P0506 - If either CTT05 or CTT06 is present, then the other is required.

COMMENTS
This segment is intended to provide hash totals to validate transaction completeness and correctness.

856 Ship Notice/Manifest Specification

Required Segments	Descriptions
BSN	Beginning Segment for Ship Notice
HL	Hierarchical Level
TD1	Carrier Details (Quantity and Weight)
TD5	Carrier Details (Routing Sequence/Transit Time)
REF	Reference Identification
DTM	Date/Time Reference
N1	Name
N4	Geographic Location
MAN	Marks and Numbers
PAL	Pallet Information
PEF	Purchase Order Reference
LIN	Item Identification
SN1	Item Detail (Shipment)
CTT	Transaction Totals

856 BSN Beginning Segment for Ship Notice

To transmit identifying numbers, dates, and other basic data relating to the transaction set

ID	Name	Data Type	Min/Max Size	Sent
01	Transaction Set Purpose Code	ID	2/2	Y
02	Shipment Identification	Alphanumeric	2/30	Y
03	Date	Date	8/8	Y
04	Time	Time	4/8	Y
05	Hierarchical Structure Code	ID	4/4	Y
06	Transaction Type Code	ID	2/2	N
07	Status Reason Code	ID	3/3	N

Example:
BSN*00*12345678*20090323*1440*0001

BSN02 12345678 is the Pro Number and should be the Shipment Identification

SYNTAX NOTES
07 C0706 - If BSN07 is present, then BSN06 is required.

SEMANTIC NOTES
03 BSN03 is the date the shipment transaction set is created.
04 BSN04 is the time the shipment transaction set is created.
06 BSN06 is limited to shipment related codes.
BSN06 and BSN07 differentiate the functionality of use for the transaction set.

856 HL Hierarchical Level

To identify dependencies among and the content of hierarchically related groups of data segments

ID Name	Data Type	Min/Max Size	Sent
01 Hierarchical ID Number	Alphanumeric	1/12	Y
02 Hierarchical Parent ID Number	Alphanumeric	1/12	Y
03 Hierarchical Level Code	ID	1/2	Y
04 Hierarchical Child Code	ID	1/1	Y

Example:
(A Hierarchical Child Code of S = Shipment, Hierarchical Level Code is blank because the shipment is the parent of all other levels)
HL*1**S
(A Hierarchical Child Code of T = Tare or Pallet)
HL*2*1*T
(A Hierarchical Child Code of O = Order)
HL*3*2*O
(A Hierarchical Child Code of P = Pack or Carton)
HL*4*3*P
(A Hierarchical Child Code of I = Item detail)
HL*5*4*I
(A Hierarchical Child Code of P = Pack or Carton)
HL*6*3*P
(A Hierarchical Child Code of I = Item detail)
HL*7*6*I

The only Hierarchical Child Codes we will accept are S, T, O, P and I.

Diagram of Example

```
          ID = 1
          Parent = (blank)
          Child Code = S
               |
          ID = 2
          Parent = 1
          Child Code = T
               |
          ID = 3
          Parent = 2
          Child Code = O
               |
        +------+------+
        |             |
     ID = 4        ID = 6
     Parent = 3    Parent = 3
     Child Code = P Child Code = P
        |             |
     ID = 5        ID = 7
     Parent = 4    Parent = 6
     Child Code = I Child Code = I
```

COMMENTS
00 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
00 The HL segment defines a top-down/left-right ordered structure.
01 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
02 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
03 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
04 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.
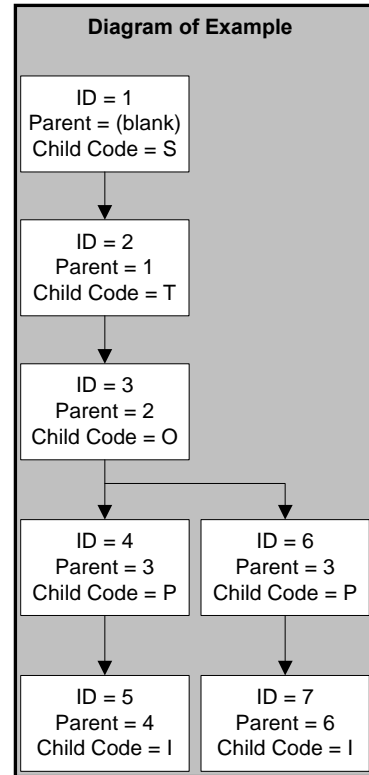
856 TD1 Carrier Details (Quantity and Weight)

To specify the transportation details relative to commodity, weight, and quantity

ID	Name	Data Type	Min/Max Size	Sent
01	Packaging Code	Alphanumeric	3/5	Y
02	Lading Quantity	Numeric	1/7	Y
03	Commodity Code Qualifier	ID	1/1	N
04	Commodity Code	Alphanumeric	1/30	N
05	Lading Description	Alphanumeric	1/50	N
06	Weight Qualifier	ID	1/2	Y
07	Weight	Numeric	1/10	Y
08	Unit or Basis for Measurement Code	ID	2/2	Y
09	Volume	Numeric	1/8	N
10	Unit or Basis for Measurement Code	ID	2/2	N

Example:
TD1*CTN25*10****G*750*LB

TD101 CTN stands for Carton and the 25 stands for corrugated cardboard. This is the default we expect.
TD106 G means gross weight
TD108 LB means pound

SYNTAX NOTES
01 C0102 - If TD101 is present, then TD102 is required.
03 C0304 - If TD103 is present, then TD104 is required.
06 C0607 - If TD106 is present, then TD107 is required.
07 P0708 - If either TD107 or TD108 is present, then the other is required.
09 P0910 - If either TD109 or TD110 is present, then the other is required.

856 TD5 Carrier Details (Routing Sequence/Transit Time)

To specify the carrier and sequence of routing and provide transit time information

ID	Name	Data Type	Min/Max Size	Sent
01	Routing Sequence Code	ID	1/2	Y
02	Identification Code Qualifier	ID	1/2	Y
03	Identification Code	Alphanumeric	2/80	Y
04	Transportation Method/Type Code	ID	1/2	N
05	Routing	Alphanumeric	1/35	N
06	Shipment/Order Status Code	ID	2/2	N
07	Location Qualifier	ID	1/2	N
08	Location Identifier	Alphanumeric	1/30	N
09	Transit Direction Code	ID	2/2	N
10	Transit Time Direction Qualifier	ID	2/2	N
11	Transit Time	Time	1/4	N
12	Service Level Code	ID	2/2	N
13	Service Level Code	ID	2/2	N
14	Service Level Code	ID	2/2	N
15	Country Code	ID	2/3	N

Example:
TD5*O*2*FDEG

TD501 O is the originating carrier
TD502 2 means we expect the SCAC Standard Carrier Alpha Code in TD503
TD503 FDEG is FedEx grounds SCAC

SYNTAX NOTES
02 R0204050612 - At least one of TD502, TD504, TD505, TD506 or TD512 is required.
02 C0203 - If TD502 is present, then TD503 is required.
05 C0708 - If TD507 is present, then TD508 is required.
10 C1011 - If TD510 is present, then TD511 is required.
13 C1312 - If TD513 is present, then TD512 is required.
14 C1413 - If TD514 is present, then TD513 is required.
15 C1512 - If TD515 is present, then TD512 is required.

SEMANTIC NOTES
15 TD515 is the country where the service is to be performed.

COMMENTS
02 When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

856 REF Reference Identification

To specify identifying information

ID	Name	Data Type	Min/Max Size	Sent
01	Reference Identification Qualifier	ID	2/3	Y
02	Reference Identification	Alphanumeric	1/30	Y
03	Description	Alphanumeric	1/80	N
04	Reference Identifier	Alphanumeric	1/30	N

Example:
REF*BM*766804

REF01 BM is for the bill of lading

SYNTAX NOTES
02 R0203 - At least one of REF02 or REF03 is required.

SEMANTIC NOTES
04 REF04 contains data relating to the value cited in REF02.

856 DTM Date/Time Reference

To specify pertinent dates and times

ID	Name	Data Type	Min/Max Size	Sent
01	Date/Time Qualifier	ID	3/3	Y
02	Date	Date	8/8	Y
03	Time	Time	4/8	N
04	Time Code	ID	2/2	N
05	Date Time Period Format Qualifier	ID	2/3	N
06	Date Time Period	Alphanumeric	1/35	N

Example:
(A Date/Time Qualifier of 011 means Shipped Date)
DTM*011*20090323

SYNTAX NOTES
02 R020305 - At least one of DTM02, DTM03 or DTM05 is required.
04 C0403 - If DTM04 is present, then DTM03 is required.
05 P0506 - If either DTM05 or DTM06 is present, then the other is required.

856 N1 Name

To identify a party by type of organization, name, and code

ID Name		Data Type	Min/Max Size	Sent
01	Entity Identifier Code	ID	2/3	Y
02	Name	Alphanumeric	1/60	N
03	Identification Code Qualifier	ID	1/2	Y
04	Identification Code	Alphanumeric	2/80	Y
05	Entity Relationship Code	ID	2/2	N
06	Entity Identifier Code	ID	2/3	N

Example:
N1*ST**92*NJ01

N101 ST means Ship To
N103 92 is an identifier specifying this N104 is the DC identifier
N104 NJ01 is the ID sent on the 850 for the DC

N1*MA**92*0015

N101 MA means Party for whom Item is ultimately intended
N103 92 is an identifier specifying this N104 is a store number 4 digits and zero filled
N104 0015 is the ID sent on the 850 from this store location

N1*SF**92*123456

N101 SF means Ship From
N103 92 is an identifier specifying this N104 is a the 6 digit zero filled vendor identifier assigned at A.C. Moore
N104 123456 is the id A.C. Moore has assigned to your supplier

SYNTAX NOTES
02 R0203 - At least one of N102 or N103 is required.
03 P0304 - If either N103 or N104 is present, then the other is required.

COMMENTS
04 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
05 N105 and N106 further define the type of entity in N101.

856 N4 Geographic Location

To specify the geographic place of the named party

ID	Name	Data Type	Min/Max Size	Sent
01	City Name	Alphanumeric	2/30	Y
02	State or Province Code	ID	2/2	Y
03	Postal Code	ID	3/15	Y
04	Country Code	ID	2/3	Y
05	Location Qualifier	ID	1/2	N
06	Location Identifier	Alphanumeric	1/30	N

Example:
N4*South Portland*ME*04106*US

SYNTAX NOTES
06 C0605 - If N406 is present, then N405 is required.

COMMENTS
01 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
02 N402 is required only if city name (N401) is in the U.S. or Canada.

856 MAN Marks and Numbers

To indicate identifying marks and numbers for shipping containers

ID	Name	Data Type	Min/Max Size	Sent
01	Marks and Numbers Qualifier	ID	1/2	Y
02	Marks and Numbers	Alphanumeric	1/48	Y
03	Marks and Numbers	Alphanumeric	1/48	N
04	Marks and Numbers Qualifier	ID	1/2	N
05	Marks and Numbers	Alphanumeric	1/48	N
06	Marks and Numbers	Alphanumeric	1/48	N

Example:
MAN*GM*00100340860075232455

MAN01 GM is the SSCC-18 identifier. This identifier is the expected for both the Tare (Pallet) and Pack (Carton) level bar codes

Serial Shipping Container Code:
(00) 0 0028028 000015259 8

SYNTAX NOTES
04 P0405 - If either MAN04 or MAN05 is present, then the other is required.
06 C0605 - If MAN06 is present, then MAN05 is required.

SEMANTIC NOTES
01 MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
02 When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
05 When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.

COMMENTS
01 When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.
03 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers.
03 When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.

856 PAL Pallet Information

To identify the type and physical attributes of the pallet, and, gross weight, gross volume, and height of the load and the pallet

ID	Name	Data Type	Min/Max Size	Sent
01	Pallet Type Code	ID	1/2	Y
02	Pallet Tiers	Numeric	1/3	N
03	Pallet Blocks	Numeric	1/3	N
04	Pack	Numeric	1/6	Y
05	Unit Weight	Numeric	1/8	Y
06	Unit or Basis for Measurement Code	ID	2/2	Y
07	Length	Numeric	1/8	N
08	Width	Numeric	2/2	N
09	Height	Numeric	1/8	N
10	Unit or Basis for Measurement Code	ID	1/8	N
11	Gross Weight per Pack	Numeric	1/8	N
12	Unit or Basis for Measurement Code	ID	2/2	N
13	Gross Volume per Pack	Numeric	1/9	N
14	Unit or Basis for Measurement Code	ID	2/2	N
15	Pallet Exchange Code	ID	1/1	N
16	Inner Pack	Numeric	1/6	N

Example:
PAL*6***50*250*LB

PAL01 6 means it's a wooden pallet
PAL04 50 is the quantity of packs on the pallet
PAL05 250 is the weight of the pallet in pounds
PAL06 LB means pounds

SYNTAX NOTES
05 P0506 - If either PAL05 or PAL06 is present, then the other is required.
07 C0710 - If PAL07 is present, then PAL10 is required.
08 C0810 - If PAL08 is present, then PAL10 is required.
09 C0910 - If PAL09 is present, then PAL10 is required.
10 L10070809 - If PAL10 is present, then at least one of PAL07, PAL08 or PAL09 is required.
11 P1112 - If either PAL11 or PAL12 is present, then the other is required.
13 P1314 - If either PAL13 or PAL14 is present, then the other is required.

SEMANTIC NOTES
04 PAL04 (Pack) is the number of pieces on the pallet.
05 PAL05 (Unit Weight) is the weight of the pallet alone, before loading.
07 PAL07 and PAL08 (Length and Width) are the dimensions of the pallet before loading.
09 PAL09 (Height) is the height of the pallet and load.
11 PAL11 and PAL13 (Gross Weight and Gross Volume) are measured after loading and includes the pallet.

856 PRF Purchase Order Reference

To provide reference to a specific purchase order

ID	Name	Data Type	Min/Max Size	Sent
01	Purchase Order Number	Alphanumeric	1/22	Y
02	Release Number	Alphanumeric	1/30	N
03	Change Order Sequence Number	Alphanumeric	1/8	N
04	Date	Date	8/8	N
05	Assigned Identification	Alphanumeric	1/20	N
06	Contract Number	Alphanumeric	1/30	N
07	Purchase Order Type Code	ID	2/2	N

Example:
PRF*87654321

SEMANTIC NOTES
04 PRF04 is the date assigned by the purchaser to purchase order.

856 LIN Item Identification

To specify basic item identification data

ID	Name	Data Type	Min/Max Size	Sent
01	Assigned Identification	Alphanumeric	1/20	N
02	Product/Service ID Qualifier	ID	2/2	Y
03	Product/Service ID	Alphanumeric	1/48	Y
04	Product/Service ID Qualifier	ID	2/2	N
05	Product/Service ID	Alphanumeric	1/48	N
06	Product/Service ID Qualifier	ID	2/2	N
07	Product/Service ID	Alphanumeric	1/48	N
08	Product/Service ID Qualifier	ID	2/2	N
09	Product/Service ID	Alphanumeric	1/48	N
10	Product/Service ID Qualifier	ID	2/2	N
11	Product/Service ID	Alphanumeric	1/48	N
12	Product/Service ID Qualifier	ID	2/2	N
13	Product/Service ID	Alphanumeric	1/48	N
14	Product/Service ID Qualifier	ID	2/2	N
15	Product/Service ID	Alphanumeric	1/48	N
16	Product/Service ID Qualifier	ID	2/2	N
17	Product/Service ID	Alphanumeric	1/48	N
18	Product/Service ID Qualifier	ID	2/2	N
19	Product/Service ID	Alphanumeric	1/48	N
18	Product/Service ID Qualifier	ID	2/2	N
19	Product/Service ID	Alphanumeric	1/48	N
20	Product/Service ID Qualifier	ID	2/2	N
21	Product/Service ID	Alphanumeric	1/48	N
22	Product/Service ID Qualifier	ID	2/2	N
23	Product/Service ID	Alphanumeric	1/48	N
24	Product/Service ID Qualifier	ID	2/2	N
25	Product/Service ID	Alphanumeric	1/48	N
26	Product/Service ID Qualifier	ID	2/2	N
27	Product/Service ID	Alphanumeric	1/48	N
28	Product/Service ID Qualifier	ID	2/2	N
29	Product/Service ID	Alphanumeric	1/48	N
30	Product/Service ID Qualifier	ID	2/2	N
31	Product/Service ID	Alphanumeric	1/48	N

Example:
(with UPC Codes)
LIN**UP*024225012310
LIN02 UP stands UPC code

(with Item Codes)
LIN**VC*42024
LIN02 VC stands Vendor Item Code

SYNTAX NOTES
04 P0405 - If either LIN04 or LIN05 is present, then the other is required.
06 P0607 - If either LIN06 or LIN07 is present, then the other is required.
08 P0809 - If either LIN08 or LIN09 is present, then the other is required.
10 P1011 - If either LIN10 or LIN11 is present, then the other is required.
12 P1213 - If either LIN12 or LIN13 is present, then the other is required.
14 P1415 - If either LIN14 or LIN15 is present, then the other is required.
16 P1617 - If either LIN16 or LIN17 is present, then the other is required.
18 P1819 - If either LIN18 or LIN19 is present, then the other is required.
20 P2021 - If either LIN20 or LIN21 is present, then the other is required.
22 P2223 - If either LIN22 or LIN23 is present, then the other is required.
24 P2425 - If either LIN24 or LIN25 is present, then the other is required.
26 P2627 - If either LIN26 or LIN27 is present, then the other is required.
28 P2829 - If either LIN28 or LIN29 is present, then the other is required.
30 P3031 - If either LIN30 or LIN31 is present, then the other is required.

SEMANTIC NOTES
01 LIN01 is the line item identification

856 SN1 Item Detail (Shipment)

To specify line-item detail relative to shipment

ID	Name	Data Type	Min/Max Size	Sent
01	Assigned Identification	Alphanumeric	1/20	N
02	Number of Units Shipped	Numeric	1/10	Y
03	Unit or Basis for Measurement Code	ID	2/2	Y
04	Quantity Shipped to Date	Numeric	1/15	N
05	Quantity Ordered	Numeric	1/15	N
06	Unit or Basis for Measurement Code	ID	2/2	N
07	Returnable Container Load Make-Up Code	ID	1/2	N
08	Line Item Status Code	ID	2/2	N

Example:
SN1**30*EA

SN103 EA is eaches. Eaches are the unit of measure we expect to get from the supplier

SYNTAX NOTES
05 P0506 - If either SN105 or SN106 is present, then the other is required.

SEMANTIC NOTES
01 SN101 is the ship notice line-item identification.

COMMENTS
03 SN103 defines the unit of measurement for both SN102 and SN104.

856 CTT Transaction Totals

To transmit a hash total for a specific element in the transaction set

ID	Name	Data Type	Min/Max Size	Sent
01	Number of Line Items	Numeric	1/6	Y
02	Hash Total	Numeric	1/10	N
03	Weight	Numeric	1/10	N
04	Unit or Basis for Measurement Code	ID	2/2	N
05	Volume	Numeric	1/8	N
06	Unit or Basis for Measurement Code	ID	2/2	N
07	Description	Alphanumeric	1/80	N

Example:
CTT*13

CTT01 13 is the count of HL segments contained within the 856 document

SYNTAX NOTES
03 P0304 - If either CTT03 or CTT04 is present, then the other is required.
05 P0506 - If either CTT05 or CTT06 is present, then the other is required.

COMMENTS
00 This segment is intended to provide hash totals to validate transaction completeness and correctness.

214 Transportation Carrier Shipment Status Message Specification

Required Segments	Descriptions
B10	Beginning Segment for Transportation Carrier Shipment Status Message
AT7	Shipment Status Details

214 B10 Beginning Segment for Transportation Carrier Shipment Status Message

To transmit identifying numbers and other basic data relating to the transaction set

ID	Name	Data Type	Min/Max Size	Sent
01	Reference Identification	Alphanumeric	1/30	Y
02	Shipment Identification Number	Alphanumeric	1/30	Y
03	Standard Carrier Alpha Code	ID	2/4	Y
04	Inquiry Request Number	Numeric	1/3	Y
05	Reference Identification Qualifier	ID	2/3	N
06	Reference Identification	Alphanumeric	1/30	N
07	Yes/No Condition or Response Code	ID	1/1	N

Example:

B10*1675431222*1234567*SCAC*1

SYNTAX NOTES
01 R0106 - At least one of B1001 or B1006 is required.
01 E0105 - Only one of B1001 or B1005 may be present.
05 P0506 - If either B1005 or B1006 is present, then the other is required.

SEMANTIC NOTES
01 B1001 is the carrier assigned reference number.
07 B1007 indicates if the reference numbers included in this transmission were transmitted to the carrier via EDI or key entered by the carrier. A "Y" indicates that the carrier received the reference numbers in an EDI transmission; an "N" indicates that the carrier did not receive the reference numbers in an EDI transmission and key entered the data from a shipper supplied document.

COMMENTS
01 B1001 is the carrier's PRO (invoice number) that identifies the shipment.
03 B1003 is required when used in Transaction Set 214.
06 B1006 is the carrier assigned bar code identification or another carrier assigned shipment identification, such as a manifest number.

214 AT7 Shipment Status Details

To specify the status of a shipment, the reason for that status, the date and time of the status and the date and time of any appointments scheduled.

ID	Name	Data Type	Min/Max Size	Sent
01	Shipment Status Code	ID	2/2	Y
02	Shipment Status or Appointment Reason Code	ID	2/2	Y
03	Shipment Appointment Status Code	ID	2/2	N
04	Shipment Status or Appointment Reason Code	ID	2/2	N
05	Date	Date	8/8	Y
06	Time	Time	4/8	Y
07	Time Code	ID	2/2	Y

Example:

AT7*AF*NS***20090324*1938*PT

SYNTAX NOTES
01 E0103 - Only one of AT701 or AT703 may be present.
01 P0102 - If either AT701 or AT702 is present, then the other is required.
03 P0304 - If either AT703 or AT704 is present, then the other is required.
06 C0605 - If AT706 is present, then AT705 is required.
07 C0706 - If AT707 is present, then AT706 is required.

SEMANTIC NOTES
01 If AT701 is present, AT705 is the date the status occurred. If AT703 is present, AT705 is a date related to an appointment.
01 If AT701 is present, AT706 is the time of the status. If AT703 is present, AT706 is the time of the appointment. If 07
07 AT707 is not present then AT706 represents local time of the status.

997 Functional Acknowledgements Specification

Required Segments	Descriptions
AK1	Functional Group Response Header
AK2	Transaction Set Response Header
AK5	Transaction Set Response Trailer
AK9	Functional Group Response Trailer

997 AK1 Functional Group Response Header

To start acknowledgment of a functional group

ID	Name	Data Type	Min/Max Size	Needed
01	Functional Identifier Code	ID	2/2	Y
02	Group Control Number	Number no Decimal	1/9	Y

Example:
(the Functional Identifier Code is PO for purchase order)
AK1*PO*103

SEMANTIC NOTES
AK101 is the functional ID found in the GS segment (GS01) in the functional group being acknowledged.
AK102 is the functional group control number found in the GS segment in the functional group being acknowledged.

997 AK2 Transaction Set Response Header

To start acknowledgment of a single transaction set

ID	Name	Data Type	Min/Max Size	Needed
01	Transaction Set Identifier Code	ID	3/3	Y
02	Transaction Set Control Number	Alphanumeric	4/9	Y

Example:
(the Transaction Set Identifier Code is 850 for purchase order)
AK2*850*1030001

SEMANTIC NOTES
AK201 is the transaction set ID found in the ST segment (ST01) in the transaction set being acknowledged.
AK202 is the transaction set control number found in the ST segment in the transaction set being acknowledged.

997 AK5 Transaction Set Response Trailer

To acknowledge acceptance or rejection and report errors in a transaction set

ID	Name	Data Type	Min/Max Size	Needed
01	Transaction Set Acknowledgment Code	ID	1/1	Y
02	Transaction Set Syntax Error Code	ID	1/3	N
03	Transaction Set Syntax Error Code	ID	1/3	N
04	Transaction Set Syntax Error Code	ID	1/3	N
05	Transaction Set Syntax Error Code	ID	1/3	N
06	Transaction Set Syntax Error Code	ID	1/3	N

Example:
AK5*A

Transaction Set Acknowledgment Code Definition and Explanation	
A	Accepted
E	Accepted But Errors Were Noted
M	Rejected, Message Authentication Code (MAC) Failed
R	Rejected
W	Rejected, Assurance Failed Validity Tests
X	Rejected, Content After Decryption Could Not Be Analyzed

997 AK9 Functional Group Response Trailer

To acknowledge acceptance or rejection of a functional group and report the number of included transaction sets from the original trailer, the accepted sets, and the received sets in this functional group

ID Name		Data Type	Min/Max Size	Needed
01	Functional Group Acknowledge Code	ID	1/1	Y
02	Number of Transaction Sets Included	Number no Decimal	1/6	Y
03	Number of Received Transaction Sets	Number no Decimal	1/6	Y
04	Number of Accepted Transaction Sets	Number no Decimal	1/6	Y
05	Functional Group Syntax Error Code	ID	1/3	N
06	Functional Group Syntax Error Code	ID	1/3	N
07	Functional Group Syntax Error Code	ID	1/3	N
08	Functional Group Syntax Error Code	ID	1/3	N
09	Functional Group Syntax Error Code	ID	1/3	N

Example:
AK9*A*1*1*1

Functional Group Acknowledge Code Definition and Explanation	
A	Accepted
E	Accepted But Errors Were Noted
M	Rejected, Message Authentication Code (MAC) Failed
R	Rejected
W	Rejected, Assurance Failed Validity Tests
X	Rejected, Content After Decryption Could Not Be Analyzed

COMMENTS
If AK901 contains the value "A" or "E", then the transmitted functional group is accepted.